## **AMENDMENTS TO THE CLAIMS**

The following listing of claims will replace all prior versions and listings of claims in the application.

## LISTING OF CLAIMS

1. (Original) A scroll machine comprising:

an outer shell defining a suction pressure zone;

a first scroll compressor disposed within said suction pressure zone of said shell;

a second scroll compressor disposed within said suction pressure zone of said

shell;

a drive shaft extending between and coupled to each of said first and second

scroll compressors said drive shaft operable to drive said first and second scroll

compressors for compressing fluid disposed within said suction pressure zone;

a mounting frame disposed within said suction pressure zone of said shell, said

first and second scroll compressors being attached to said mounting frame;

a motor disposed within said suction pressure zone of said shell between said

first and second scroll compressors, said motor being attached to said mounting frame

and drivingly coupled to said drive shaft; and

an oil sump disposed between said outer shell and said mounting frame, said oil

sump being in communication with said first scroll compressor through a first bore in

said drive shaft and said second scroll compressor through a second bore in said drive

shaft.

2. (Original) The scroll machine in accordance with claim 1, wherein said motor comprises:

a stator attached to said mounting frame; and a rotor attached to said drive shaft.

3. (Original) The scroll machine in accordance with claim 1, wherein said first scroll compressor comprises:

a first scroll member having a first spiral wrap projecting outwardly from a first end plate;

a second scroll member having a second spiral wrap projecting outwardly from a second end plate, said second spiral wrap being interleaved with said first spiral wrap to define a first plurality of moving chambers therebetween when said second scroll member orbits with respect to said first scroll member; and a first main bearing housing attached to said mounting-frame, said first main bearing housing rotatably supporting said drive shaft.

- 4. (Original) The scroll machine in accordance with claim 3, wherein said mounting frame is disposed between said first main bearing housing and said shell.
- 5. (Original) The scroll machine in accordance with claim 3, wherein said second scroll compressor comprises:

a third scroll member having a third spiral wrap projecting outwardly from a third end plate;

a fourth scroll member having a fourth spiral wrap projecting outwardly from a fourth end plate, said fourth spiral wrap being interleaved with said third spiral wrap to define a second plurality of moving chambers therebetween when said fourth scroll member orbits with respect to said third scroll member; and

a second main bearing housing attached to said mounting frame, said second main bearing housing rotatably supporting said drive shaft.

- 6. (Original) The scroll machine in accordance with claim 5, wherein said mounting frame is disposed between said first main bearing housing and said shell and between said second main bearing housing and said shell.
- 7. (Original) The scroll machine in accordance with claim 1, wherein said shell defines a first discharge pressure chamber in communication with said first scroll compressor and a second discharge chamber in communication with said second scroll compressor.
- 8. (Original) The scroll machine in accordance with claim 7, wherein said first and second scroll compressors are disposed within said suction pressure chamber.
- 9. (Original) The scroll machine in accordance with claim 1, further comprising a first capacity modulation system for varying the capacity of said first scroll compressor.

- 10. (Original) The scroll machine in accordance with claim 9, wherein said first capacity modulation system includes a pulse width modulation system.
- 11. (Original) The scroll machine in accordance with claim 9, further comprising a second capacity modulation system for varying the capacity of said second scroll compressor.
- 12. (Original) The scroll machine in accordance with claim 11, wherein said first capacity modulation system includes a first pulse width modulation system and said second capacity modulation system includes a second pulse width modulation system.
- 13. (Original) The scroll machine in accordance with claim 1, wherein said motor is a variable speed motor.
  - 14. (Original) The scroll machine in accordance with claim 1 wherein:

said first scroll compressor comprises a first non-orbiting scroll member interleaved with a first orbiting scroll member, said first non-orbiting scroll member being mounted for axial movement within said outer shell; and

said second scroll compressor comprises a second non-orbiting scroll member interleaved with a second orbiting scroll member, said second non-orbiting scroll member being mounted for axial movement within said outer shell.

- 15. (Original) The scroll machine in accordance with claim 1 further comprising a first fluid injection fitting extending through said outer shell for implementing a first vapor injection system for said first scroll compressor.
- 16. (Original) The scroll machine in accordance with claim 15 further comprising a second fluid injection fitting extending through said outer shell for implementing a second vapor injection system for said second scroll compressor.
- 17. (Original) The scroll machine in accordance with claim 16, further comprising a first capacity modulation system for varying the capacity of said first scroll compressor.
- 18. (Original) The scroll machine in accordance with claim 17, wherein said first capacity modulation system includes a pulse width modulation system.
- 19. (Original) The scroll machine in accordance with claim 17, further comprising a second capacity modulation system for varying the capacity of said second scroll compressor.
- 20. (Original) The scroll machine in accordance with claim 19, wherein said first capacity modulation system includes a first pulse width modulation system and said second capacity modulation system includes a second pulse width modulation system.

- 21. (Original) The scroll machine in accordance with claim 15, further comprising a first capacity modulation system for varying the capacity of said first scroll compressor.
- 22. (Original) The scroll machine in accordance with claim 21, wherein said first capacity modulation system includes a pulse width modulation system.
- 23. (Original) The scroll machine in accordance with claim 21, further comprising a second capacity modulation system for varying the capacity of said second scroll compressor.
- 24. (Original) The scroll machine in accordance with claim 23, wherein said first capacity modulation system includes a first pulse width modulation system and said second capacity modulation system includes a second pulse width modulation system.
- 25. (Original) The scroll machine in accordance with claim 1 wherein said drive shaft includes a first eccentric crank pin and a second eccentric crank pin, said first and second crank pin defining a crank pin axis disposed eccentric from an axis of said drive shaft.
- 26. (Original) The scroll machine in accordance with claim 1 wherein a single suction inlet extends through said outer shell, said single suction inlet being in communication with said suction pressure zone.

27. (Original) The scroll machine in accordance with claim 1 further comprising a first oil pump in communication with said oil sump and said first scroll

compressor.

28. (Original) The scroll machine in accordance with claim 27 further

comprising a second oil pump in communication with said oil sump and said second

scroll compressor.

29. (Original) The scroll machine in accordance with claim 1 wherein said

outer shell comprises a generally cylindrical shell, a first end cap welded to one end of

said generally cylindrical shell and a second end cap welded to an opposite end of said

generally cylindrical shell.

30-70. (Cancelled)

71. (New) The scroll machine in accordance with claim 1, wherein said outer

shell includes a generally cylindrical shell and said oil sump is disposed along a

cylindrical sidewall of said outer shell.

72-74. (Cancelled)

75. (New) A scroll machine comprising:

an outer shell defining a first discharge pressure zone, a second discharge pressure zone, and a suction pressure zone;

a first scroll compressor including a first non-orbiting scroll member interleaved with a first orbiting scroll member, said first orbiting scroll member being mounted for radial movement within said outer shell;

a second scroll compressor including a second non-orbiting scroll member interleaved with a second orbiting scroll member, said second orbiting scroll member being mounted for radial movement within said outer shell;

a drive shaft extending between, and coupled to, each of said first and second orbiting scroll members, said drive shaft operable to drive said first and second scroll compressors for compressing fluid;

a mounting frame disposed within said outer shell;

a motor disposed between said first and second scroll compressors and attached to said mounting frame, said motor being drivingly coupled to said drive shaft;

an oil sump disposed between said outer shell and said mounting frame.

76. (New) A scroll machine comprising:

an outer shell;

a first scroll compressor disposed within said shell, said first scroll compressor comprising:

a first scroll member having a first end plate and a first spiral wrap extending therefrom;

a second scroll member having a second end plate and a second spiral wrap extending therefrom, said first and second scroll members being positioned with said first and second spiral wraps interleaved with each other;

a second scroll compressor disposed within said shell, said second scroll compressor comprising;

a third scroll member having a third end plate and a third spiral wrap extending therefrom;

a fourth scroll member having a fourth end plate and a fourth spiral wrap extending therefrom, said third and fourth scroll members being positioned with said third and fourth spiral wraps interleaved with each other;

a drive shaft extending between and coupled to each of said first and third scroll members said drive shaft operable to drive said first and second scroll compressors for compressing fluid;

a mounting frame disposed within said outer shell;

said second scroll member being movable between a first relationship in which sealing surfaces of said first and second scroll members are in sealing relationship to close off first fluid pockets and a second relationship wherein at least one of said sealing surfaces of said first and second scroll members are spaced apart to define a first leakage path between said first fluid pockets;

a first actuation device secured to said second scroll member for applying a force to said second scroll member to move said second scroll member between said first relationship where said first scroll compressor operates at substantially full capacity and

said second relationship where said first scroll compressor operates at substantially zero capacity; and

an oil sump disposed between said outer shell and said mounting frame.

77. (New) The scroll machine in accordance with claim 76, wherein said first

actuation device is operated in a time pulsed manner to modulate the capacity of said

first scroll compressor.

78. (New) The scroll machine in accordance with claim 76, further comprising

a fluid pressure chamber operative to apply said force to said first actuation device.

79. (New) The scroll machine in accordance with claim 78, wherein said force

acts in an axial direction.

80. (New) The scroll machine in accordance with claim 79, further comprising

a first passage for supplying a pressurized fluid from said first scroll compressor to said

pressure chamber.

81. (New) The scroll machine in accordance with claim 80, further comprising

a valve for controlling flow through said first passage, said valve being operative to vent

said pressurized fluid from said pressure chamber to thereby enable said second scrolls

to move between said first and second relationships.

- 82. (New) The scroll machine in accordance with claim 81, wherein said valve is a solenoid-operated valve.
- 83. (New) The scroll-type machine in accordance with claim 82, wherein said solenoid-operated valve is operated in a pulse width modulated mode.
- 84. (New) The scroll machine in accordance with claim 80, further comprising a second passage for venting said pressurized fluid from said pressure chamber.
- 85. (New) The scroll machine in accordance with claim 76 wherein said fourth scroll member is movable between a first relationship in which sealing surfaces of said third and fourth scroll members are in sealing relationship to close off second fluid pockets and a second relationship wherein at least one of said sealing surfaces of said third and fourth scroll members are spaced apart to define a second leakage path between said second fluid pockets, and said scroll machine further comprises:

a second actuation device secured to said fourth scroll member for applying a force to said fourth scroll member to move said fourth scroll member between said first relationship where said second scroll compressor operates at substantially full capacity and said second relationship where said second scroll compressor operates at substantially zero capacity.

- 86. (New) The scroll machine in accordance with claim 85, wherein at least one of said first actuation device and said second actuation device includes a fluid-operated piston.
- 87. (New) The scroll machine in accordance with claim 85 further comprising:
  a first fluid injection fitting extending through said outer shell for implementing a
  first vapor injection system for said first scroll compressor; and

a second fluid injection fitting extending through said outer shell for implementing a second vapor injection system for said second scroll compressor.

- 88. (New) The scroll machine in accordance with claim 75, wherein said mounting frame is disposed within said suction pressure zone of said shell.
- 89. (New) The scroll machine in accordance with claim 75, wherein said motor comprises:
  - a stator attached to said mounting frame; and a rotor attached to said drive shaft.
- 90. (New) The scroll machine in accordance with claim 75, further comprising a first main bearing housing attached to said mounting frame, said first main bearing housing rotatably supporting said drive shaft.

- 91. (New) The scroll machine in accordance with claim 90, wherein said mounting frame is disposed between said first main bearing housing and said shell.
- 92. (New) The scroll machine in accordance with claim 90, further comprising a second main bearing housing attached to said mounting frame, said second main bearing housing rotatably supporting said drive shaft.
- 93. (New) The scroll machine in accordance with claim 92, wherein said mounting frame is disposed between said first main bearing housing and said shell and between said second main bearing housing and said shell.
- 94. (New) The scroll machine in accordance with claim 75, wherein said shell defines a first discharge pressure chamber in communication with said first scroll compressor and a second discharge chamber in communication with said second scroll compressor.
- 95. (New) The scroll machine in accordance with claim 94, wherein said first and second scroll compressors are disposed within said suction pressure zone of said shell.
- 96. (New) The scroll machine in accordance with claim 75, further comprising a first capacity modulation system for varying the capacity of said first scroll compressor.

- 97. (New) The scroll machine in accordance with claim 96, wherein said first capacity modulation system includes a pulse width modulation system.
- 98. (New) The scroll machine in accordance with claim 96, further comprising a second capacity modulation system for varying the capacity of said second scroll compressor.
- 99. (New) The scroll machine in accordance with claim 98, wherein said first capacity modulation system includes a first pulse width modulation system and said second capacity modulation system includes a second pulse width modulation system.
- 100. (New) The scroll machine in accordance with claim 75, wherein said motor is a variable speed motor.
- 101. (New) The scroll machine in accordance with claim 75, further comprising a first fluid injection fitting extending through said outer shell for implementing a first vapor injection system for said first scroll compressor.
- 102. (New) The scroll machine in accordance with claim 101, further comprising a second fluid injection fitting extending through said outer shell for implementing a second vapor injection system for said second scroll compressor.

- 103. (New) The scroll machine in accordance with claim 102, further comprising a first capacity modulation system for varying the capacity of said first scroll compressor.
- 104. (New) The scroll machine in accordance with claim 103, wherein said first capacity modulation system includes a pulse width modulation system.
- 105. (New) The scroll machine in accordance with claim 103, further comprising a second capacity modulation system for varying the capacity of said second scroll compressor.
- 106. (New) The scroll machine in accordance with claim 105, wherein said first capacity modulation system includes a first pulse width modulation system and said second capacity modulation system includes a second pulse width modulation system.
- 107. (New) The scroll machine in accordance with claim 101, further comprising a first capacity modulation system for varying the capacity of said first scroll compressor.
- 108. (New) The scroll machine in accordance with claim 107, wherein said first capacity modulation system includes a pulse width modulation system.

- 109. (New) The scroll machine in accordance with claim 107, further comprising a second capacity modulation system for varying the capacity of said second scroll compressor.
- 110. (New) The scroll machine in accordance with claim 109, wherein said first capacity modulation system includes a first pulse width modulation system and said second capacity modulation system includes a second pulse width modulation system.
- 111. (New) The scroll machine in accordance with claim 75 wherein said drive shaft includes a first eccentric crank pin and a second eccentric crank pin, said first and second crank pin defining a crank pin axis disposed eccentric from an axis of said drive shaft.
- 112. (New) The scroll machine in accordance with claim 75, further comprising a single suction inlet extending through said outer shell, said single suction inlet being in communication with said suction pressure zone.
- 113. (New) The scroll machine in accordance with claim 75, further comprising a first oil pump in communication with said oil sump and said first scroll compressor.
- 114. (New) The scroll machine in accordance with claim 113, further comprising a second oil pump in communication with said oil sump and said second scroll compressor.

- 115. (New) The scroll machine in accordance with claim 75, wherein said outer shell comprises a generally cylindrical shell, a first end cap welded to one end of said generally cylindrical shell and a second end cap welded to an opposite end of said generally cylindrical shell.
- 116. (New) The scroll machine in accordance with claim 75, wherein said outer shell includes a generally cylindrical shell and said oil sump is disposed along a cylindrical sidewall of said outer shell.
- 117. (New) The scroll machine in accordance with claim 76, wherein said outer shell includes a generally cylindrical shell and said oil sump is disposed along a cylindrical sidewall of said outer shell.
- 118. (New) The scroll machine in accordance with claim 76, further comprising a first discharge pressure chamber in fluid communication with said first scroll compressor.
- 119. (New) The scroll machine in accordance with claim 118, further comprising a second discharge pressure chamber in fluid communication with said second scroll compressor.
- 120. (New) The scroll machine in accordance with claim 76, wherein said first actuation device includes a fluid-operated piston.